

From: Card, Joan
To: [Ostrander, David](#); [Myers, Craig](#)
Cc: [McGrath, Shaun](#); [Faulk, Libby](#)
Subject: FW: Runoff data for USGS streamgage 09358550 Cement Creek at Silverton, CO
Date: Sunday, August 9, 2015 12:37:38 PM

Embargoed—Do Not Release

David, Craig: See information below from USGS. Please review and make a decision about revising the spill volume. Please let this group know when you have made that revision. After that, we will implement a communications strategy with the goal of getting it out as soon as possible today. Thanks. Joan

Joan Card | Senior Policy Advisor
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USEPA Region 8 (CO, MT, ND, SD, UT, WY)
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From: Ethridge, Max [mailto:methridge@usgs.gov]

Sent: Sunday, August 09, 2015 12:09 PM

To: Card, Joan

Cc: Kimbrough, Robert; Lori Caramanian; Robert Horton; Timothy Raines; Suzanne Paschke; Mark Sogge

Subject: Re: Runoff data for USGS streamgage 09358550 Cement Creek at Silverton, CO

Joan,

Yes, you can quote/attribute this estimate to USGS.

Max

On Sun, Aug 9, 2015 at 8:48 AM, Card, Joan <Card.Joan@epa.gov> wrote:

Bob, and others, thank you very much. Our plan will be to review this information at EPA and then, likely fairly early today, announce a revised estimate based on your statement below.

Can we quote/attribute to USGS from the statement below?

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From: Kimbrough, Robert <rakimbrow@usgs.gov>

Sent: Sunday, August 9, 2015 8:56 AM

To: Card, Joan

Cc: Max Ethridge; Lori Caramanian; Robert Horton; Timothy Raines; Suzanne Paschke; Robert Kimbrough

Subject: Runoff data for USGS streamgage 09358550 Cement Creek at Silverton, CO

Joan,

Max Ethridge asked me to provide you with the following information.

The USGS operates a streamgage near the mouth of Cement Creek in Silverton, Colorado which recorded a relatively flashy runoff event on August 5, 2015 (http://waterdata.usgs.gov/co/nwis/uv/?site_no=09358550&PARAMeter_cd=00065.00060).

The streamgage provides provisional stream stage and discharge values in 15-minute increments. The event started about 12:30 PM and ended about 7:15 PM. The total volume of runoff for the event above base flow was calculated by 1) subtracting an assumed base flow of 27 cubic feet per second from each 15-minute discharge value, 2) using the resulting discharge values to compute the total volume of runoff for each 15-minute period (initially in cubic feet and then gallons), and 3) summing the volume of runoff for each 15-minute period. This resulted in a calculated runoff volume above base flow for the event of 3,043,067 gallons which is rounded to an estimate of 3 million gallons. The data are considered provisional because the stage and discharge records have not yet gone through a formal review. However, one of our technicians visited the gage on July 31 and August 8, 2015 and we are confident the streamgage is providing good provisional data for August 5.

Please let me know if I can be of further assistance.

Bob

Robert Kimbrough | U.S. Geological Survey

Associate Director for Hydrologic Data | Colorado Water Science Center

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